

IN THE CLAIMS:

Please amend Claims 1-13 as follows.

1. (Currently Amended) A display device comprising:

a light source for emitting a light;

a light modulation element for modulating the emitted light; and

picture signal inputting means for receiving a picture signal from the outside and inputting a driving signal for driving ~~the~~ said light modulation element to ~~the~~ said light modulation element, in which ~~the~~ said light modulation element modulates the light based on the picture signal and an image is displayed,

wherein ~~the~~ said picture signal inputting means comprises target light amount calculating means and light amount controlling means, ~~the~~ said target light amount calculating means ~~being means for~~ calculating an adequate light amount for an image display and ~~the~~ said light amount controlling means ~~being means for~~ receiving the signal from ~~the~~ said target light amount calculating means and controlling the light so as to obtain a target light amount; and

wherein said picture signal inputting means changes signal amplification rates in at least two input ranges for changing input-output conversion characteristics according to an output of said target light amount calculating means, and in the two input ranges of the input-output conversion characteristics said ~~the~~ picture signal inputting means largely amplifies the driving signal when the picture signal has a low luminance and slightly amplifies the driving signal when the picture signal has a high luminance.

2. (Currently Amended) The display device according to claim 1, wherein, when the picture signal has a high luminance, a pseudo multi-gradation process is executed.

3. (Currently Amended) The display device according to claim 1, wherein ~~the~~ said light amount controlling means comprises a member for converting the light to a polarization light flux and a light amount adjusting member for controlling a permeable amount of the polarization light flux, and wherein by changing a rotational position of ~~the~~ said light amount adjusting member, a light amount is controlled.

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4. (Currently Amended) The display device according to claim 2, wherein ~~the~~ said light amount controlling means comprises a member for converting the light to a polarization light flux and a light amount adjusting member for controlling a permeable amount of the polarization light flux, and wherein by changing a rotational position of ~~the~~ said light amount adjusting member, a light amount is controlled.

5. (Currently Amended) The display device according to claim 3, wherein ~~the~~ said light amount adjusting member is a phase plate.

6. (Currently Amended) The display device according to claim 4, wherein ~~the~~ said light amount adjusting member is a phase plate.

7. (Currently Amended) The display device according to claim 2, wherein rotation of ~~the~~ said light amount adjusting member is executed by an ultrasonic motor.

8. (Currently Amended) The display device according to claim 3, wherein rotation of ~~the~~ said light amount adjusting member is executed by an ultrasonic motor.

9. (Currently Amended) The display device according to claim 4, wherein rotation of ~~the~~ said light amount adjusting member is executed by an ultrasonic member.

10. (Currently Amended) The display device according to claim 5, wherein rotation of ~~the~~ said light amount adjusting member is executed by an ultrasonic motor.

11. (Currently Amended) The display device according to claim 6, wherein rotation of ~~the~~ said light amount adjusting member is executed by an ultrasonic motor.

12. (Currently Amended) A display device comprising:
a light source for emitting a light;
a light modulation element for modulating the emitted light; and
picture signal inputting means for receiving a picture signal from the outside and inputting a driving signal for driving the light modulation element to ~~the~~ said light modulation element, in which ~~the~~ said light modulation element modulates the light based on the picture signal and an image is displayed,

wherein ~~the~~ said picture signal inputting means comprises target light amount calculating means and light amount controlling means, ~~the~~ said target light amount

calculating means ~~being means for~~ calculating an adequate light amount for an image display and
the said light amount controlling means ~~being means for~~ receiving the signal from the said target
light amount calculating means and controlling the a light modulated which is transmitted or
reflected by the said light modulation element so as to obtain a target light amount; and

wherein the said picture signal inputting means changes a signal
amplification factor for changing input-output conversion characteristics corresponding to an
output of the said target light amount calculating means.

13. (Currently Amended) The display device according to claim 12,
wherein, when the picture signal has a high luminance, the said picture signal inputting means
amplifies by an amplification factor not more than the an amplification factor used when in the
~~case of~~ the picture signal ~~having~~ has a low luminance.

14. (Original) The display device according to claim 12, wherein, when the
picture signal has a low luminance, the signal is amplified by an amplification factor of 1 or
more.